PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 09 July 2001 (09.07.01)	MUSKER, David, Charles R.G.C. Jenkins & Co. 26 Caxton Street London SW1H 0RJ ROYAUME-UNI
Applicant's or agent's file reference	
J00041084WO	IMPORTANT NOTIFICATION
International application No. PCT/GB00/00591	International filing date (day/month/year) 18 February 2000 (18.02.00)
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative
Name and Address	State of Nationality State of Residence GB GB
ICO SERVICES LIMITED 1 Queen Caroline Street London W6 9BN United Kingdom	Telephone No.
Officed Kingdom	Facsimile No.
	Teleprinter No.
2. The International Bureau hereby notifies the applicant that the	ne following change has been recorded concerning:
the person the name X the add	Iress the nationality the residence
Name and Address	State of Nationality State of Residence GB GB
ICO SERVICES LIMITED Symphony House High Street Cowley	Telephone No.
Cowley Business Park	
Uxbridge Middlesex UB8 2AD	Facsimile No.
United Kingdom	Teleprinter No.
3. Further observations, if necessary:	
J. Turther observations, if hecessary.	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority	X the elected Offices concerned
the International Preliminary Examining Authority	other:
The International Duranu of MIDO	Authorized officer
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Christine Carrié
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

o. _

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room 524
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

ETATS-UNIS D'AMERIQUE in its capacity as elected Office

Date of mailing (day/month/year)
27 October 2000 (27.10.00)

International application No. PCT/GB00/00591

International filing date (day/month/year)
18 February 2000 (18.02.00)

Applicant's or agent's file reference

J00041084WO

Priority date (day/month/year)

18 February 1999 (18.02.99)

Applicant

WYRWAS, Richard

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	15 September 2000 (15.09.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38



VIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International
J000410	84WO	FOR FORTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)
Internation	al application No.	International filing date (day/mont	
PCT/GB	00/00591	18/02/2000	18/02/1999
Internation H04B7/1		r national classification and IPC	
Applicant	-		
ICO SEF	RVICES LIMITED et al.		
1. This i	nternational preliminary ex s transmitted to the applica	amination report has been prepare nt according to Article 36.	ed by this International Preliminary Examining Authority
2. This	REPORT consists of a tota	of 4 sheets, including this covers	sheet.
b (:	een amended and are the	basis for this report and/or sheets n 607 of the Administrative Instruct	the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
ŢΙ	☐ Basis of the report	relating to the following items:	
II 	☐ Priority		and the state of t
III	_		nventive step and industrial applicability
IV V			o novelty, inventive step or industrial applicability;
VI	☐ Certain documents	cited	
VII	☐ Certain defects in th	e international application	
VIII	☐ Certain observations	s on the international application	
Date of sub	omission of the demand	Date of	f completion of this report
15/09/20	00	17.04.2	2001
	mailing address of the internati examining authority: European Patent Office	ional Authori	rized officer
<u>)</u>))	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523 Fax: +49 89 2399 - 4465		e, W none No. +49 89 2399 8479

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00591

l. Bas	is of t	he re	port
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1.	the and	receiving Office in	nents of the international applicates applicates an invitation under to this report since they do not co	Article 14 are	referred to in this repo	ort as "originally filed"
	1-2	0	as originally filed			
	21		as received on	15/02/2001	with letter of	14/02/2001
	Cla	ims, No.:				
	1-8		as originally filed			
	9-1 ⁻	1	as received on	15/02/2001	with letter of	14/02/2001
	Dra	wings, sheets:				
	1/9-	9/9	as originally filed			
_		LA Harden				albin Avalonia in al-
2.		•	uage, all the elements marked and international application was file			•
	The	se elements were a	available or furnished to this Aut	nority in the fo	ollowing language: , v	which is:
		the language of a	translation furnished for the purp	ooses of the in	nternational search (ur	nder Rule 23.1(b)).
		the language of pu	iblication of the international app	olication (unde	er Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished for the purp	ooses of inter	national preliminary ex	amination (under Rule
3.			eleotide and/or amino acid seq y examination was carried out o			application, the
		contained in the in	ternational application in written	form.		
		filed together with	the international application in c	omputer read	able form.	
		furnished subsequ	ently to this Authority in written t	orm.		
		furnished subsequ	ently to this Authority in comput	er readable fo	orm.	
			t the subsequently furnished wri		e listing does not go be	eyond the disclosure in
		The statement that listing has been fu	t the information recorded in cor rnished.	nputer readat	ole form is identical to t	the written sequence

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00591

4.	The	amendments have re	sulted in t	ne cancel	llation of:
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		
5.					ome of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
		(Any replacement she report.)	eet contair	ning such	amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, if	necessar	y:	
٧.		soned statement und tions and explanation			ith regard to novelty, inventive step or industrial applicability;
1.	Stat	ement			
	Nov	relty (N)	Yes: No:	Claims Claims	1-11
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-11
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-11

2. Citations and explanations see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/GB00/00591

EXAMINATION REPORT - SEPARATE SHEET

Re Item I

Basis of the report

Original claim 9 has been deleted. Original claims 10 to 12 have been clarified and renumbered accordingly.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- The invention relates to the problem of mitigating interference in satellite mobile 1. communications systems
- This problem is solved by determining which of a first beam of a first satellite and 2. a second beam of a second satellite in an area of multiple coverage on Earth is subject to interference at an interference frequency and, as a result of this determination of interference. controlling the communications on the more peripheral of the beams to limit the reception on the interference frequency.
- WO 9631016 (identified on page 3) is considered to be the closest prior art. This 3. document discloses a method of preventing interference by predicting the zone where the interference will occur and inhibiting transmission into that zone. However, this document does not disclose nor suggest a control of the more peripheral beam of overlapping beams.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
J00041084W0 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 00/00591	18/02/2000	18/02/1999
Applicant ICO SERVICES LIMITED et a	1.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.
	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the contained in the internation	e sequence listing : onal application in written form.	nternational application, the international search
	emational application in computer readable for this Authority in written form	m.
I <u>—</u>	this Authority in written form. this Authority in computer readble form.	
the statement that the sub	psequently furnished written sequence listing one is the sequence is the seque	loes not go beyond the disclosure in the
		s identical to the written sequence listing has been
Certain claims were four Unity of invention is lace.	nd unsearchable (See Box I). king (see Box II).	
4. With regard to the title ,		
The text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as su		
the text has been establis within one month from the	thed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	<u>x</u>
as suggested by the appli	cant.	None of the figures.
because the applicant fail		
because this figure better	characterizes the invention.	

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04B7/185 H04B7/204		
Agendin	o International Patent Classification (IPC) or to both national classifica	rtion and IPC	
	SEARCHED	mon and ir o	
Minimum do IPC 7	ocumentation searched (classification system followed by classification H04B	on symbols)	
Documental	tion searched other than minimum documentation to the extent that s	uch documents are included in the fields so	berbase
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
A	US 5 736 959 A (PATTERSON DAVID PAL) 7 April 1998 (1998-04-07) abstract column 6, line 9-24 column 13, line 60 -column 14, licolumn 34, line 51-64 claims		1,7-11
A	EP 0 858 176 A (ICO SERVICES LTD) 12 August 1998 (1998-08-12) cited in the application abstract column 1, line 33 -column 2, line column 5, line 35 -column 6, line claims	· 44	1-4,9-12
			·
X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
"A" docume consic "E" earlier of filing of "L" docume which citatio "O" docume other	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 To later document published after the integration or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. "&" document member of the same patent 	the application but early underlying the claimed invention to considered to cournent is taken alone claimed invention exertive step when the one other such docu-
	actual completion of the international search	Date of mailing of the international se	arch report
	5 May 2000	23/05/2000	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (131, 70) 340, 2000, Tv. 31,651 epo pl	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Dejonghe, O	

1



	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Industrial Control
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 559 806 A (KURBY CHRISTOPHER N ET AL) 24 September 1996 (1996-09-24) abstract column 2, line 40-56 column 4, line 27 -column 5, line 6 column 6, line 14 -column 7, line 6 figures 1-3,6,7 claims	1,6-11
:		

1

Patent document cited in search report	t	Publication date		Patent family member(s)	Publication date
US 5736959	A	07-04-1998	US	5408237 A	18-04-1995
** ********			US	5548294 A	20-08-1996
			US	5740164 A	14-04-1998
			AT	146637 T	15-01-1997
			AU	3176893 A	07-06-1993
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			EP	0611501 A	24-08-1994
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			AU	3054992 A	07-06-1993
			CA	2121587 A	13-05-1993
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		,	DE	69229678 T	06-04-2000
			EP	0611500 A	24-08-1994
			EΡ	0935349 A	11-08-1999
			WO	9309613 A	13-05-1993
EP 0858176	A	12-08-1998	JP	10276469 A	13-10-1998
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